

### **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

### **Listing of Claims:**

1. (Currently amended) A method for intelligent audio output control, the method comprising:  
~~obtaining~~ receiving values for a set of input parameters;  
receiving stored historical data, wherein the stored historical data comprises stored values for the set of input parameters and a stored audio output parameter value associated with the stored values for the set of input parameters;  
~~obtaining an~~ predicting a value for an audio output parameter of an audio system prediction based on the received values for the set of input parameters and the stored historical data; and  
adjusting [[an]] the audio output parameter for [[an]] the audio system using the predicted value for the audio output parameter prediction.
2. (Currently amended) The method of claim 1, wherein the step of ~~obtaining~~ receiving values for a set of input parameters includes receiving values from one or more sensors.
3. (Currently amended) The method of claim 1, wherein the set of input parameters includes at least one of vehicle speed, whether a vehicle window is open or closed, vehicle interior or exterior noise levels, whether a convertible top is up or down, whether a windshield wiper is in use, windshield wiper level, whether headlights are on, and global positioning system (GPS) coordinates.
4. (Original) The method of claim 1, wherein the set of input parameters includes audio type.
5. (Currently amended) The method of claim 1, wherein the stored historical data comprises a plurality of data points, wherein each data point includes a value for each of the set of input parameters and an audio output parameter value associated with the set of input parameters, and wherein the step of ~~obtaining~~ predicting a value for an audio output parameter ~~prediction~~ includes:  
~~receiving a plurality of data points, wherein each data point includes a value for each of the set of input parameters and an audio output parameter value;~~ and  
performing statistical analysis on the plurality of data points to ~~determine an~~ predict the value for the audio output parameter prediction.

6. (Original) The method of claim 5, wherein the statistical analysis includes at least one of performing an average, performing linear regression analysis, performing multiple regression analysis, performing linear extrapolation, performing curve fitting, and removing outliers.
7. (Currently amended) The method of claim 5, further comprising:  
storing the values for the set of input parameters and the predicted value for the audio output parameter ~~prediction~~ as a data point.
8. (Currently amended) The method of claim 1, further comprising:  
receiving user input of an audio output parameter value;  
~~obtaining~~ receiving values for the set of input parameters; and  
storing the values for the set of input parameters and the audio output parameter value as the historical data ~~a data point~~.
9. (Currently amended) The method of claim 1, wherein the stored historical data comprises a plurality of data points, wherein each data point includes a value for each of the set of input parameters and an audio output parameter value associated with the set of input parameters, and wherein the step of ~~obtaining~~ predicting a value for an audio output parameter ~~prediction~~ includes:  
identifying a closest data point within [[a]] the plurality of historical data points; and  
setting the predicted value for the audio output parameter ~~prediction~~ to an audio output parameter value of the closest data point.
10. (Original) The method of claim 1, wherein the audio output parameter is one of volume level, balance, fade, bass, treble, and equalizer settings.
11. (Currently amended) An apparatus for intelligent audio output control, the apparatus comprising:  
means for ~~obtaining~~ receiving values for a set of input parameters;  
means for receiving stored historical data, wherein the stored historical data comprises stored values for the set of input parameters and a stored output parameter value associated with the stored values for the set of input parameters;  
means for ~~obtaining~~ predicting a value for an audio output parameter of an audio system ~~prediction~~ based on the received values for the set of input parameters and the stored historical data; and  
means for adjusting [[an]] the audio output parameter for [[an]] the audio system using the predicted value for the audio output parameter ~~prediction~~.

12. (Currently amended) The apparatus of claim 11, wherein the means for receiving ~~obtaining~~ values for a set of input parameters includes one or more sensors.

13. (Currently amended) The apparatus of claim 11, wherein the set of input parameters includes at least one of vehicle speed, whether a vehicle window is open or closed, vehicle interior or exterior noise levels, whether a convertible top is up or down, whether a windshield wiper is in use, windshield wiper level, whether headlights are on, and global positioning system (GPS) coordinates.

14. (Original) The apparatus of claim 11, wherein the set of input parameters includes audio type.

15. (Currently amended) The apparatus of claim 11, wherein the stored historical data comprises a plurality of data points, wherein each data point includes a value for each of the set of input parameters and an audio output parameter value associated with the set of input parameters, and wherein the means for ~~obtaining~~ predicting a value for an audio output parameter prediction includes:

means for receiving a plurality of data points, ~~wherein each data point includes a value for each of the set of input parameters and an audio output parameter value;~~ and

means for performing statistical analysis on the plurality of data points to ~~determine an~~ predict the value for the audio output parameter ~~prediction~~.

16. (Original) The apparatus of claim 15, wherein the statistical analysis includes at least one of performing an average, performing linear regression analysis, performing multiple regression analysis, performing linear extrapolation, performing curve fitting, and removing outliers.

17. (Currently amended) The apparatus of claim 15, further comprising:

means for storing the values for the set of input parameters and the predicted value for the audio output parameter ~~prediction~~ as a data point.

18. (Currently amended) The apparatus of claim 11, further comprising:

means for receiving user input of an audio output parameter value;  
means for ~~obtaining~~ receiving values for the set of input parameters; and  
means for storing the values for the set of input parameters and the audio output parameter value as the historical data ~~a data point~~.

19. (Currently amended) The apparatus of claim 11, wherein the stored historical data comprises a plurality of data points, wherein each data point includes a value for each of the set of input parameters and an audio output parameter value associated with the set of input parameters, and wherein the means for ~~obtaining~~ predicting a value for an audio output parameter ~~prediction~~ includes:

means for identifying a closest data point within ~~[[a]]~~ the plurality of historical data points; and

means for setting the predicted value for the audio output parameter~~prediction~~ to an audio output parameter value of the closest data point.

20. (Original) The apparatus of claim 11, wherein the audio output parameter is one of volume level, balance, fade, bass, treble, and equalizer settings.

21. (Currently amended) A computer program product, comprising ~~[[in]]~~ a computer readable medium~~[[,]]~~ storing instructions for intelligent audio output control, the computer program product comprising:

instructions for ~~obtaining~~ receiving values for a set of input parameters;

instructions for receiving stored historical data, wherein the stored historical data comprises stored values for the set of input parameters and a stored audio output parameter value associated with the stored values for the set of input parameters;

instructions for ~~obtaining~~ predicting a value for an audio output parameter of an audio system ~~prediction~~ based on the received values for the set of input parameters and the stored historical data; and

instructions for adjusting ~~[[an]]~~ the audio output parameter for~~[[an]]~~ the audio system using the predicted value for the audio output parameter ~~prediction~~.